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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,967	12/26/2001	Shigeru Kamei	087147-0443B	2213
22428 755 FOLEY AND LA	90 12/22/2006 ARDNER LLP		EXAM	INER
SUITE 500			LUKTON, DAVID	
3000 K STREET WASHINGTON,		•	ART UNIT	PAPER NUMBER
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SHORTENED STATUTORY I	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONT	ГНS	12/22/2006	PAP	FR

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)					
	10/025,967	KAMEI ET AL.					
Office Action Summary	Examiner	Art Unit					
	David Lukton	1654					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the state of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 29 Se	eptember 2006.						
	action is non-final.	·					
3) Since this application is in condition for allowar		ters, prosecution as to the merits	is				
closed in accordance with the practice under E	•						
Disposition of Claims	•						
4)⊠ Claim(s) <u>1-10 and 17-25</u> is/are pending in the a	application						
		ration.					
5) Claim(s) is/are allowed.	4a) Of the above claim(s) <u>4-10 and 17-25</u> is/are withdrawn from consideration. ☐ Claim(s) is/are allowed						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.	_						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	•						
<u> </u>	•	•					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce		by the Eveniner					
Applicant may not request that any objection to the		•					
Replacement drawing sheet(s) including the correcti	•		(4)				
11) The oath or declaration is objected to by the Ex	·	•	•				
TI) THE CALL OF GEORGIA CONTROL OF CHECK	animer. Note the attache	d Office Action of Torrit 1 TO-132.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 	•	§ 119(a)-(d) or (f).					
2. Certified copies of the priority documents	•	Application No					
3. Copies of the certified copies of the prior	ity documents have beer						
application from the International Bureau * See the attached detailed Office action for a list of		traceived					
occ the attached detailed office action for a fist	or the certified copies no	rieceived.					
•							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application					
S. Patent and Trademark Office		·					

Art Unit 1654

Pursuant to the directives of the response filed 9/29/06, claim 1 has been amended. Claims 4-10 and 17-25 remain withdrawn Claims 1-10 and 17-25 remain pending. from consideration. Claims 1-3 are examined in this Office action.

Applicants' arguments filed 9/29/06 have been considered and found not persuasive.

Claims 1-3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 5,480,868. Although the conflicting claims are not identical, they are not patentably distinct from each other. In response, applicants have argued that if the examiner is willing to issue a notice of applicants would, at that point, be willing to file a terminal disclaimer. However, as applicants counsel may be aware, it is customary for applicants to overcome rejections prior to issuance of a notice of allowability, rather than subsequent thereto. The rejection is maintained.

The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 are rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicants have asserted that the compound (recited in the last four lines of claim 1) is an LH-RH antagonist. However, there is no evidence that this is the case. Certainly, other antagonists of LH-RH are known. But the reality in pharmacology is that one cannot "predict" receptor antagonism or even receptor binding merely be viewing the structure of a compound. Minor changes in structure can result in elimination of activity. As stated in *Ex parte Forman* (230 USPQ 546, 1986) and *In re Wands* (8 USPQ2d 1400, Fed. Cir., 1988) the factors to consider in evaluating the need (or absence of need) for "undue experimentation" are the following: quantity of experimentation necessary, amount of direction or guidance presented, presence or absence of working examples, nature of the invention, state of the prior art, relative skill of those in that art, predictability or unpredictability of the art, and breadth of the claims.

Given the unpredictability of structure/activity relationships, "undue experimenation" would be required of the skilled artisan to use the composition of claim 1 to antagonize LH-RH.

The rejection is maintained.

Claim 1 is objected to. The structural formula is not clearly legible. The examiner can determine applicants' intentions with regard to the structures. However, the persons charged with the task of printing the final document may be unwilling to issue the patent if the structures are unclear. Accordingly, a notice of allowability will not be issued as long as one or more of the structures is unclear.

♦

Claims 1-3 are rejected under 35 U.S.C. §112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites that the peptide can be any that falls within the scope of the generic formula. At the same time, the claim recites that the peptide is limited to the specie recited in the last four lines of the claim. Thus, the question is, which limitation controls? Given the ambiguity, claims 2-3 are similarly rejected.

The following is a quotation of 35 U.S.C. §103 which forms the basis for all obviousness rejections set forth in the Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section §102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section §102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made, absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103.

Claims 1-3 are rejected under 35 U.S.C. §103 as being unpatentable over Haviv (USP 5,110,904) in view of Deasy (USP 4,874,612) or Hutchinson (USP 4,789,726).

As indicated previously, Haviv discloses (cols 12-25) various peptides falling within the scope of instant claim 1. Also disclosed (col 27, line 8+) is that the peptide can be combined with a PLA/PLG copolymer. Haviv does not suggest selecting a polydispersity that is somewhere in the range of 1.2-4. Each of the secondary references discloses PLA/PGA copolymers that have the requisite polydispersity. For example, this is disclosed in Deasy at col 2, line 45+. Hutchinson even goes a step further in arguing (col 2, line 51+; col 3, line 53+) that a polydispersity of about 2 is the most statistically probable distribution of molecular weights. A practitioner of the Haviv invention may or may not see an advantage in a polydispersity of 2, but would recognize that such a composition is most likely to be obtained.

In response to the foregoing, applicants have amended claim 1 to recite that the peptide be can one of those falling within the scope of the generic formula, and at the same time, the peptide must be the specie that is recited in the last four lines of the claim. However, it is not clear which of these two limitations controls. Given the ambiguity, it is

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appropriate to maintain this rejection.

Claims 1-3 are rejected under 35 U.S.C. §103 as being unpatentable over Haviv (USP 5,110,904) in view of Boswell (USP 3,773,919) further in view of either Deasy (USP 4,874,612) or Hutchinson (USP 4,789,726).

The teachings of the references were indicated previously. In response to this rejection, applicants have amended claim 1 to recite that the peptide can one of those falling within the scope of the generic formula, and at the same time, the peptide must be the specie that is recited in the last four lines of the claim. However, it is not clear which of these two limitations controls. Given the ambiguity, it is appropriate to maintain this rejection.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 571-272-0952. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached at (571)272-0562. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

De Lukson

DAVID LUKTON, PH.D. PRIMARY EXAMINER